

11/18/13 Agenda


- Warm up
- Review 3.7 Worksheet (Absolute Value)
- Test Review - Sections 3.1-3.7
- Homework - Chapter Review Packet 3.1-3.7
 - We will correct tomorrow & collect before the Test on Wednesday
- Tomorrow - Target Station Review
- **Wednesday (11/20) - Test on Chapter 3**

Warmup:

- Grab a slip of paper
- Put your name on it
- Distribute & Combine Like Terms

$$3x - (7 + x) + 11$$
$$+3x - 7 - 1x + 11$$
$$2x + 4$$

$$-(7 + x)$$
$$-7 - x$$

$$|7| = 7 \quad | -7 | = 7$$


$$|x+2| = 7$$

$$\begin{array}{rcl} \swarrow & & \searrow \\ x+2=7 & \text{OR} & x+2=-7 \\ \underline{-2} \quad \underline{-2} & & \underline{-2} \quad \underline{-2} \\ x=5 & \text{OR} & x=-9 \end{array}$$

$$\frac{2|3x-2|}{2} = \frac{26}{2}$$

$$|3x-2| = 13$$

$$\begin{array}{rcl} \swarrow & & \searrow \\ 3x-2=13 & \text{OR} & 3x-2=-13 \\ \underline{+2} \quad \underline{+2} & & \underline{+2} \quad \underline{+2} \\ 3x=15 & & 3x=-11 \\ \underline{3} & & \underline{3} \\ x=5 & \text{OR} & x=-\frac{11}{3} \end{array}$$

$$\left\{ 5, -\frac{11}{3} \right\}$$

$$7. \quad |5-3v|=10$$

$$\begin{array}{r} +5-3v=10 \\ -5 \quad -5 \\ \hline -3v = 5 \\ \frac{-3v}{-3} = \frac{5}{-3} \end{array}$$



$$v = -\frac{5}{3} \quad \text{OR}$$

$$\begin{array}{r} +5-3v=-10 \\ -5 \quad -5 \\ \hline -3v = -15 \\ \frac{-3v}{-3} = \frac{-15}{-3} \end{array}$$

$$v = 5$$

$$\left\{ -\frac{5}{3}, 5 \right\}$$

Sections 3.1 - 3.4

- Section 3.1 - Inequalities & Their Graphs
 - Words to Symbols
 - Graphing (open or closed circle)
 - Graph to Inequality
 - Is a value a solution to an inequality?
- Section 3.2 - Solving One-Step Inequalities with + or -
 - Subtract to undo Addition
 - Add to undo Subtraction
- Section 3.3 - Solving One-Step Inequalities with * or /
 - Divide to undo Multiplication
 - Multiply to undo Division
 - If you multiply or divide by a negative number, REMEMBER TO FLIP THE SIGN!!!
- Section 3.4 - Solving Multi-Step Inequalities
 - Distribute and Combine Like Terms before you do anything else!
 - Do reverse order of PEMDAS
 - If an inequality has variables on both sides, there are 3 possible outcomes.
 - An answer with a variable.
 - No variable, TRUE statement (all solutions)
 - No variable, FALSE statement (no solutions)
- Section 3.6 - Compound Inequalities
 - AND 
 - OR 
- Section 3.7 - Absolute Value Equations
 - Do all operations to get the absolute value sign alone
 - Rewrite as 2 equations, (+ or -)
 - Solve each equation separately.